

*MOJAVE DESERT*  
*AIR QUALITY MANAGEMENT DISTRICT*

---

Federal Operating Permit Number: 27700941

For: **KRAMER JUNCTION COMPANY**

Facility: **SEGS (III - VII)**

Issued Pursuant to MDAQMD Regulation XII  
Effective Date: November 16, 2000

This Federal Operating Permit Expires  
on: November 16, 2005

Issued By: Charles L. Fryxell  
Air Pollution Control Officer

---

14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392  
PHONE (760) 245-1661  
FAX (760) 245-2022

TABLE OF CONTENTS

	<u>Page</u>
Part I    Introductory Information . . . . .	I-3 through I-10
Part II    Applicable Requirements and Emissions Limitations . . . . .	II-11 through II-30
Part III    Monitoring, Record keeping, Reporting, Testing Requirements	III-31 through III-41
Part IV    Standard Federal Operating Permit Conditions . . . . .	IV-42 through IV-44
Part V    Operational Flexibility Provisions . . . . .	V-45
Part VI    Conventions, Abbreviations, Definitions. . . . .	VI-46 through VI-52

## PART I INTRODUCTORY INFORMATION

### A. Facility Identifying Information:

<u>Owner/Company Name:</u>	Kramer Junction Company
<u>Owner Mailing Address:</u>	Kramer Junction Company 41100 Highway 395 Boron, CA 93516
<u>Facility Name:</u>	SEGS (III - VII)
<u>Facility Location:</u>	Highway 395, 1 Mile N of Highway 58
<u>Mailing Address:</u>	41100 Highway 395 Boron, CA 93516
<u>MDAQMD Federal Operating Permit Number:</u>	27700941
<u>MDAQMD Company Number:</u>	0277
<u>MDAQMD Facility Number:</u>	00941
<u>Responsible Official:</u>	Scott D. Frier
<u>Title:</u>	Vice President & Chief Operating Officer
<u>Phone Number:</u>	760-762-5562
<u>Facility "Site" Contacts:</u>	David M. Rib
<u>Phone Number:</u>	760-762-5562
<u>Facility "Off Site" Contacts:</u>	None Provided
<u>Phone Number:</u>	
<u>Nature of Business:</u>	Solar Power Production Station
<u>SIC Code:</u>	4911 – Electric Power Generation
<u>Facility Location:</u>	UTM (Km) 3874.2 N / 450.0 E

B. DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 27700941) for Kramer Junction Company (KRAMER JUNCTION COMPANY, located near on Highway 395 about 1 mile north of Highway 58, near Boron, California. KRAMER JUNCTION COMPANY, is a Solar Power Production facility. The basic product of the facility is the generation of electrical power. This is accomplished through collection of solar thermal power using parabolic trough concentrators. A heat transfer fluid collects heat in the solar fields, which is then transferred to create steam, which then drives a steam turbine. Supplementary steam from five (5) steam boilers, which are fired on pipeline regulated natural gas, are used to backup the solar steam production. The supplementary steam can operate in full plant capacity or in hybrid mode with the solar steam production. to supplement the solar power production. The facility includes five Solar Electric Generating Systems, SEGS III-VII, each with a nominal of 30 MW(e). Additional emitting equipment at the facility includes for each of the SEGS units an Auxiliary Heater, an Emergency Generator, a Cooling Tower, an Ullage Vent and a Fire Water Pump. The entire facility also uses a Gasoline Dispensing Unit, a Diesel Dispensing Unit, a Waste Oil Tank, an Abrasive (Sand) Blaster and a Mobile Compressor.

C. EQUIPMENT DESCRIPTION:

1. Five (5), Natural Gas Fueled Steam Boilers described as follows:

- a. MDAQMD Permit Number B001793, SEGS III, which is a Mitsubishi, model 28VP-22W, Serial Number D-1306 boiler rated at 360 millions Btu/h input. This boiler has an output of 310,000 lb/h of steam at 1565 psia and 954°F and includes the 470 hp driven Forced Draft Fan, three low pressure feed-water pumps, at 390 hp each, P-500, A, B and C and 2 high pressure feed-water pumps, each at 490 each, P-300 A, and B and 2 MHI low NO<sub>x</sub> burners, whose serial numbers are 80299 and 80300. Optional steam injection by manual control for additional NO<sub>x</sub> is available. Design exhaust properties are 112,000 ACFM at 350°F with values of 17%, 3%, and 8% (dry) for water vapor, oxygen and carbon dioxide on volume per volume bases.
- b. MDAQMD Permit Number B001802, SEGS IV, which is a Mitsubishi, model 28VP-22W, Serial Number D-1307 boiler rated at 360 millions Btu/h input. This boiler has an output of 310,000 lb/h of steam at 1565 psia and 954°F and includes the 470 hp driven Forced Draft Fan, three low pressure feed-water pumps, at 390 hp each, P-200, A, B and C and 2 high pressure feed-water pumps, each at 490 each, P-300 A, B and C and 2 MHI low NO<sub>x</sub> burners, whose serial numbers are 80301 and 80302. Optional steam injection

by manual control for additional NO<sub>x</sub> is available. Design exhaust properties are 112,000 ACFM at 350°F with values of 17%, 3%, and 8% (dry) for water vapor, oxygen and carbon dioxide on volume per volume bases.

- c. MDAQMD Permit Number B001805, SEGS V, which is a Mitsubishi, model 28VP-22W, Serial Number D-1308 boiler rated at 360 millions Btu/h input. This boiler has an output of 310,000 lb/h of steam at 1565 psia and 954°F and includes the 470 hp driven Forced Draft Fan, three low pressure feed-water pumps, at 390 hp each, P-200, A, B and C and 2 high pressure feed-water pumps, each at 490 each, P-300 A, B and C and 2 MHI low NO<sub>x</sub> burners, whose serial numbers are 80305 and 80306. Optional steam injection by manual control for additional NO<sub>x</sub> is available. Design exhaust properties are 112,000 ACFM at 350°F with values of 17%, 3%, and 8% (dry) for water vapor, oxygen and carbon dioxide on volume per volume bases, respectively.
  - d. MDAQMD Permit Number B001882, SEGS VI, which is a Foster-Wheeler, Serial Number 52611-1 boiler rated at 367 millions Btu/h input. This boiler has an output of 319000 lb/h of steam at 1448 psia and 960°F and includes the 800 hp driven Forced Draft Fan, Boiler Water Electric Heater, at 140 kW(e), H-545 and feed-water pumps, at 1086 hp each, P-520, and P-521 and 4 John Zink AVC-SF-30G-1R1 low NO<sub>x</sub> burners, each labeled 526111-1. Flue gas recirculation and air pre-heat are additional NO<sub>x</sub> controls are available. Design exhaust properties are 104,000 ACFM at 240°F with values of 17%, 2%, and 10% (dry) for water vapor, oxygen and carbon dioxide on volume per volume bases, respectively .
  - e. MDAQMD Permit Number B001885, SEGS VII, which is a Foster-Wheeler, Serial Number 52610-1 boiler rated at 367 millions Btu/h input. This boiler has an output of 319000 lb/h of steam at 1448 psia and 960°F and includes the 800 hp driven Forced Draft Fan, 250 hp driven Gas Recirculation Fan, Boiler Water Electric Heater, at 140 kW(e), H-545 and feed-water pumps, at 1086 hp each, P-520, and P-521 and 4 John Zink AVC-SF-30G-1R1 low NO<sub>x</sub> burners, each labeled 52610-1. Flue gas recirculation and air pre-heat are additional NO<sub>x</sub> controls are available. Design exhaust properties are 104,000 ACFM at 240°F with values of 17%, 2%, and 10% (dry) for water vapor, oxygen and carbon dioxide on volume per volume bases, respectively.
2. Five (5) natural gas fired auxiliary heaters for freeze protection are described as follows:
- a. MDAQMD Permit Number B001794, SEGS III is an Entec, serial number 1350-1, whose rated input is 20 millions Btu/h. The burner is by McGill Americas, Inc. Model SRGR-13R, serial number 1350-1. Typical exhaust gas properties are: 7,650 ACFM at 1000°F

with 3% oxygen, volume per volume basis.

- b. MDAQMD Permit Number B001803, SEGS IV is an Entec, serial number 86539-B, whose rated input is 20 millions Btu/h. The burner is by McGill Americas, Inc. Model SRGR-13R, serial number 1350-1. Typical exhaust gas properties are: 7,650 ACFM at 1000°F with 3% oxygen, volume per volume basis.
  - c. MDAQMD Permit Number B001806, SEGS V is a Thermoflux, serial number 6011, whose rated input is 21.2 millions Btu/h. The burner is by Thermoflux. Typical exhaust gas properties are: 7,650 ACFM at 1000°F with 3% oxygen, volume per volume basis.
  - d. MDAQMD Permit Number B001883, SEGS VI is a Born, serial number 25899-6, whose rated input is 29.4 millions Btu/h. The burner is by North American Manufacturing, model 4121-29.4-FA68-IRI, serial number FJ3499-2. Typical exhaust gas properties are: 7,650 ACFM at 1000°F with 3% oxygen, volume per volume basis.
  - e. MDAQMD Permit Number B001885, SEGS VII is an Born, serial number 2589-H375, whose rated input is 29.4 millions Btu/h. The burner is by North American Manufacturing, model 4121-29.4-FA68-IRI, serial number FJ3499-1. Typical exhaust gas properties are: 7,650 ACFM at 1000°F with 3% oxygen, volume per volume basis.
3. Five (5) Emergency Generators, which are driven by diesel fueled Internal Combustion Engines and are described as follows:
- a. MDAQMD Permit Number B001795, SEGS III is a Katolight, model D600-FRR4, serial number SE3291915 A-35290, whose rated fuel use is 40 gal/h. This engine is rated at 900 bhp and is a 12 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 5200 ACFM.
  - b. MDAQMD Permit Number B001804 SEGS IV is a Katolight, model D600-FRR4, serial number SE3291915 A-35290, whose rated fuel use is 40 gal/h. This engine is rated at 900 bhp and is a 12 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 5200 ACFM.
  - c. MDAQMD Permit Number B001807, SEGS V is a Katolight, model D600-FRR4, serial number TA3349167 A-35638, whose rated fuel use is 40 gal/h. This engine is rated at 900 bhp and is a 12 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 5200 ACFM.

- d. MDAQMD Permit Number B001884, SEGS VI is a Katolight, model D75-FRX4, serial number UD3475256 A-36329, whose rated fuel use is 40 gal/h. This engine is rated at 1095 bhp and is a 16 cylinder, 2 cycle, turbo-charged. The exhaust of the combustion gas is 950°F and 5200 ACFM.
  - e. MDAQMD Permit Number B001887, SEGS VII is a Katolight, model D75-FRX4, serial number UE3486041 A-36329, whose rated fuel use is 40 gal/h. This engine is rated at 1095 bhp and is a 16 cylinder, 2 cycle, turbo-charged. The exhaust of the combustion gas is 950°F and 5200 ACFM.
4. Four (4) Fire Water Pumps, which are driven by diesel fueled Internal Combustion Engines and are described as follows:
- a. MDAQMD Permit Number E003229, SEGS III is a Cummins, model NTA855F, serial number 11346105, whose rated fuel use is 10 gal/h. This engine is rated at 400 bhp and is a 6 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 1300 ACFM.
  - b. MDAQMD Permit Number E003230, SEGS IV is a Cummins, model NTA855F, serial number 11310130, whose rated fuel use is 10 gal/h. This engine is rated at 400 bhp and is a 6 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 1300 ACFM.
  - c. MDAQMD Permit Number E003231, SEGS V is a Cummins, model NTA855F, serial number 11409265, whose rated fuel use is 10 gal/h. This engine is rated at 400 bhp and is a 6 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 1300 ACFM.
  - d. MDAQMD Permit Number E003232, SEGS VI is a Cummins, model NT855F3, serial number 11470186, whose rated fuel use is 10 gal/h. This engine is rated at 290 bhp and is a 6 cylinder, 4 cycle, turbo-charged and inter-cooled. The exhaust of the combustion gas is 950°F and 1300 ACFM.
5. Five (5) Cooling Towers, which are described as follows:
- a. MDAQMD Permit Number B003030, SEGS III, a Custodis/Eco-Dyne, which is rated at 30,000 gal/min circulation of liquid. The exhaust gas flow rate is 1,300,000 ACFM at 70°F and 2% water vapor on a volume per volume basis.

- b. MDAQMD Permit Number B003031, SEGS IV, a Custodis/Eco-Dyne, which is rated at 30,000 gal/min circulation of liquid. The exhaust gas flow rate is 1,300,000 ACFM at 70°F and 2% water vapor on a volume per volume basis.
  - c. MDAQMD Permit Number B003032, SEGS V, a Custodis/Eco-Dyne, which is rated at 30,000 gal/min circulation of liquid. The exhaust gas flow rate is 1,300,000 ACFM at 70°F and 2% water vapor on a volume per volume basis.
  - d. MDAQMD Permit Number B003023, SEGS VI, a Custodis/Eco-Dyne, which is rated at 30,000 gal/min circulation of liquid. The exhaust gas flow rate is 1,300,000 ACFM at 70°F and 2% water vapor on a volume per volume basis.
  - e. MDAQMD Permit Number B003033, SEGS VII, a Custodis/Eco-Dyne, which is rated at 22,000 gal/min circulation of liquid. The exhaust gas flow rate is 1,300,000 ACFM at 70°F and 2% water vapor on a volume per volume basis.
6. Five (5) Heat Transfer Fluid Systems, which are described as follows:
- a. MDAQMD Permit Number B003051, SEGS III, consists of the necessary piping, pumps, tanks, vents and instrumentation to transport the eutectic mixture of diphenyl oxide and biphenyl through the solar trough collectors.
  - b. MDAQMD Permit Number B003052, SEGS IV, consists of the necessary piping, pumps, tanks, vents and instrumentation to transport the eutectic mixture of diphenyl oxide and biphenyl through the solar trough collectors.
  - c. MDAQMD Permit Number B003053, SEGS V, consists of the necessary piping, pumps, tanks, vents and instrumentation to transport the eutectic mixture of diphenyl oxide and biphenyl through the solar trough collectors.
  - d. MDAQMD Permit Number B003025, SEGS VI, consists of the necessary piping, pumps, tanks, vents and instrumentation to transport the eutectic mixture of diphenyl oxide and biphenyl through the solar trough collectors.
  - e. MDAQMD Permit Number B003054, SEGS VII, consists of the necessary piping, pumps, tanks, vents and instrumentation to transport the eutectic mixture of diphenyl oxide and biphenyl through the solar trough collectors.



7. One (1) Compressor system at SEGS VI, which is a Sullair, model 750DTQ-JDD and serial number 004-100735EH1 and is driven by the following:

MDAQMD Permit Number B004949, SEGS VI is a John Deere, model 6466A, serial number RG6076A0108510, whose rated fuel use is 5 gal/h. This engine is rated at 222 bhp and is a 6 cylinder, 4 cycle, turbo-charged. The exhaust of the combustion gas is 950°F and unknown ACFM.

8. One (1) Waste Oil Tank, which is described as follows:

MDAQMD Permit Number T004662, which is an Amazing Steel Inc. described as an above ground 5,000 gal steel tank with dimensions of 7.38 ft in diameter and 16 ft high. It is located at SEGS VII.

9. One (1) Mirror Washer (Twister) used for cleaning parabolic solar thermal collectors, which is driven by a diesel fueled engine described as follows:

MDAQMD Permit Number B005101, which is a John Deere, model 6068T250 with 6 cylinders. This engine is 4 cycle, direct injected, turbo-charged and is rated at 166 bhp at 2400 rpm.

10. MDAQMD Permit Number N005073; Gasoline Dispensing Facility (Non-Retail), consisting of:

- a. Tanks - Number of Tanks: 2

	Tank Number:	1B	1A
1.	Material Stored:	Diesel	(87)Unleaded
2.	Volume Gallons:	3,000	5,000
3.	Aboveground (A):	A	A

- b. Dispensing Equipment:

1.	Gasoline Dispensing Nozzles (Number):	1
2.	Diesel Dispensing Nozzles (Number):	2
3.	Phase II Vapor Recovery System (Type):	Balance

11. MDAQMD Permit Number A004370; Portable Abrasive Blasting System, which consists of the following:

Kelco Blasting system at SEGS VI, model number 004200, serial number H-02426. This unit operates at 50 psi.

12. Miscellaneous equipment that does not require MDAQMD permits include vehicles, mobile equipment, whose drive engines are less than 100 bhp and hand tools of less than 100 bhp.

**PART II**  
**FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS**  
**LIMITATIONS; MONITORING, RECORDKEEPING,**  
**REPORTING AND TESTING REQUIREMENTS; COMPLIANCE**  
**CONDITIONS; COMPLIANCE PLANS**

**A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:**

1. A permit is required to operate this facility.  
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District permit to operate.  
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. The Air Pollution Control Officer may impose written conditions on any permit.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Posting of the permit to operate is required on or near the equipment or as otherwise approved by the APCO/District.  
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. Permits are not transferable.  
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.  
[Rule 217 - *Provision for Sampling And Testing Facilities*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(31)(vi)(C) - 02/01/77 43 FR 52237; Current Rule Version = 07/25/77]
8. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.  
[**SIP Pending:** Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 12/21/94; Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]
9. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.  
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]
10. Owner/Operator shall pay all applicable MDAQMD permit fees.  
[Rule 301 - *Permit Fees*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
11. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.  
[Rule 312 - *Fees for Federal Operating Permits*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
12. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
  - a. While any unit is fired on Public Utilities Commission grade natural gas, Periodic Monitoring is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements see applicable Part II and Part III conditions)  
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

13. Owner/Operator is limited to use the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 ppm calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limit for PUC quality natural gas fuel shall be determined by records supplied from the natural gas supplier documenting the sulfur content of the utility grade - pipeline quality natural gas supplied as fuel. Compliance with Rule 431 fuel sulfur limit for diesel fuel shall be determined by keeping records of CARB certified diesel fuel given by supplier's fuel analysis guarantee. Records shall be kept on-site and available for review by District, state or federal personnel at any time. The sulfur content of diesel fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*](for *Periodic Monitoring Requirements*; see *Part II and Part III conditions*)  
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]
14. Emissions of fugitive dust from any transport, handling, construction or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.  
[Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
15. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative PM<sub>10</sub> Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved.  
[**SIP Pending:** Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area* as amended 07/31/95 and submitted 10/13/95]
16. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
  - (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
  - (b) This condition shall not apply to emissions resulting from the combustion of diesel or PUC quality natural gas fuels in steam generators or gas turbines.
  - (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.  
[Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

17. Owner/Operator shall not discharge into the atmosphere from this facility, solid particulate matter including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
  - (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
- [Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]
18. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO<sub>2</sub>), greater than or equal to 500 ppm by volume.
- [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*](for *Periodic Monitoring Requirements*; see *Part II and Part III conditions*)
- [Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]
19. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
- (a) The provisions of this condition shall not apply to emissions from internal combustion engines.
- [Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
20. Owner/Operator shall not build, erect, install or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
- (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.
- [Rule 408 - *Circumvention*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

21. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions averaged over a minimum of 25 consecutive minutes.  
[Rule 409 - *Combustion Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
Reference Section III A(1)
22. APCO in his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment which has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
- (a) Any breakdown which results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
  - (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
  - (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
  - (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
  - (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the Air Pollution Control Officer.
- [**SIP Pending:** Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]
23. Owner/Operator of this facility shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced by at least 85% or to the following:
- (a) Organic materials that come into contact with flame or are baked, heat cured or heat polymerized, are limited to 1.4 kilograms (3.1 pounds) per hour not to exceed 6.5 kilograms (14.3 pounds) per day.
  - (b) Organic materials emitted into the atmosphere from the use of photochemically reactive solvents are limited to 3.6 kilograms (7.9 pounds) per hour, not to exceed 18

kilograms (39.6 pounds) per day, except as provided in Rule 442, subsection (a)(1). All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.

- (c) Organic materials emitted into the atmosphere from the use of non-photochemically reactive solvents are limited to 36.8 kilograms (81 pounds) per hour not to exceed 272 kilograms (600 pounds) per day. All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
- (d) The provisions of this condition shall not apply to the manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
- (e) The provisions of this condition shall not apply to the use of equipment for which other requirements are specified by Rules 461, 462, 463, and 464 or which are exempt from air pollution control requirements by said rules.

[Rule 442 - *Usage of Solvents*; Version in SIP = Current, 40 CFR 52.220(c)(51)(xii)(B) - 06/09/82 47 FR 25013]

24. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:

- (a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.
- (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.
- (c) Cold Solvent Degreasers - Freeboard Requirements:
  - (i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
  - (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.
  - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
  - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.
- (d) Cold Solvent Degreasers - Cover Requirements:



- (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.
- (e) Cold Solvent Degreasers - Solvent Level Identification:
  - (ii) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.
- (f) All Degreasers shall comply with the following operating requirements:
  - (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
  - (ii) Degreasers shall not be operating with any detectable solvent leaks.
  - (iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
  - (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
  - (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
  - (vi) Solvent carry-out shall be minimized by the following methods:
    - a) Rack workload arranged to promote complete drainage
    - b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
    - c) Retain the workload inside of the vapor zone until condensation ceases.
    - d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
    - e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
  - (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
  - (viii) Except for sealed chamber degreasers, all solvent agitation shall be by

- either pump recirculation, a mixer, or ultrasonics.
- (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.
  - (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
  - (xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
  - (xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
  - (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.
- (g) Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the VOC limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.
- (h) Solvent Usage Records. Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:
- (1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
    - (i) product name(s) used in the degreaser, and
    - (ii) the mix ratio of solvent compounds mixtures of solvents are used, and
    - (iii) VOC content of solvent or mixture of compounds as used, and
    - (iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
    - (v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
  - (2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data is recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a

- manner as prescribed by the District.
- (3) Documentation shall be maintained on site, for a minimum of five (5) years, of the disposal or on site recycling of any waste solvent or residues.
  - (4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V / Federal Operating Permit.

[Rule 1104 - Organic Solvent Degreasing Operations; Version in SIP = Current, 40 CFR 52.220(c)(207)(i)(D)(2) - 04/30/96 61 FR 18962, effective 11/30/94]

25. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed below:

Table of Standards

<u>COATING:</u>	<u>VOC (g/l)</u>
Below Ground Wood Preservatives	600
Bond Breakers	350
Concrete Curing Compounds	350
Dry-Fog Coatings	400
Fire Retardant Coatings	
Clear	650
Pigmented	350
Flat Coatings	250
General Primers, Sealers and Undercoaters	350
Graphic Arts (Sign) Coatings	500
Industrial Maintenance Coatings	
Anti-Graffiti Coatings	600
General Coatings	420
High Temperature Coatings	550
Lacquer	680
Magnesite Cement Coatings	600
Mastic Texture Coatings	300
Metallic-Pigmented Coatings	500
Multi-Color Coatings	580
Opaque Stains	350
Opaque Wood Preservatives	350
Pretreatment (Wash) Primer	780
Quick Dry Enamels	400
Quick Dry Primers, Sealers and Undercoaters	450
Roof Coatings	300
Sanding Sealers	550

Semi-transparent Stains	350
Semi-transparent and Clear Wood Preservatives	350
Shellac	
Clear	730
Pigmented	550
Swimming Pool Coatings	650
Swimming Pool Repair and Maintenance Coatings	650
Traffic Paints	250
For Other Surfaces	250
Black Traffic Coatings	650
Varnish	350
Waterproof Sealers	400

[Rule 1113 - *Architectural Coatings*; Version in SIP = 02/20/79, 40 CFR 52.220(c)(51)(xii)(B)-06/09/82 47 FR 25013; Current Rule Version = 09/02/92]

26. Owner/Operator shall apply coatings to metal parts and products subject to the provisions of Rule 1115 by using equipment properly operated according to manufacturer's suggested guidelines using one or more of the following methods:

- (a) Electrostatic attraction.
- (b) High Volume Low Pressure (HVLP) spray equipment.
- (c) Dip coat.
- (d) Hand Application Methods.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

27. Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

#### LIMITS

(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

<u>Coating</u>	<u>Air Dried</u>		<u>Baked</u>	
	gr/L	(lb/gal)	gr/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)

Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

28. The provisions of Part II, Condition A.26 shall not apply to the application of touch-up coatings, repair coatings, textured coatings, metallic coatings which have a metallic content of more than 30 grams per liter, mold-seal coatings, and to facilities that use less than three gallons of such coatings per day, as applied, including any VOC-containing materials added to the original coatings as supplied by the manufacturer.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

29. The provisions of Part II, Conditions A.26 and A.27 shall not apply to:
- (a) A facility which uses a total of less than one gallon of coating in any one day, including any VOC-containing materials added to the original coating as supplied by the manufacturer.
  - (b) Total noncompliant coating use per facility that does not exceed 55 gallons per year.
  - (c) Stencil coatings.
  - (d) Safety-indicating coatings.

- (e) Magnetic data storage disk coatings.
  - (f) Solid-film lubricants.
  - (g) Adhesives.
  - (h) The coating of motor vehicle bodies at motor vehicle rework facilities.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
30. Owner/Operator of any facility classified as exempt or claiming to be exempt, under Rule 1115, shall meet the record keeping requirements of Rule 1115 so as to be able to certify the exemption status.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
31. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of Rule 1115 shall comply with the provisions of Rule 442 unless compliance with the limits specified in Rule 1115 are achieved.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
32. Owner/Operator shall comply with the following requirements when using solvent for surface preparation, cleanup, and paint removal, including paint spray equipment:
- (a) VOC-containing materials for surface preparation shall not have a VOC content in excess of 200 grams of VOC per liter of material (1.67 pounds per gallon); or
  - (b) VOC-containing materials has an initial boiling point of 190 deg C (374 deg F) or greater; or
  - (c) VOC-containing materials has a total VOC vapor pressure of 20 mm Hg or less, at 20 deg C (68 deg F).
  - (d) Owner/Operator shall use closed, nonabsorbent containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
  - (e) Owner/Operator shall store fresh or spent solvent in closed containers.
  - (f) Owner/Operator shall not use organic compounds for the cleanup of spray equipment including paint lines unless an enclosed system is used for cleanup. The system shall enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures. Equipment used shall minimize the evaporation of organic compounds to the atmosphere.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
33. Owner/Operator shall not specify the use in the District of any coating to be applied to any

metal parts and products subject to the provisions of this Rule 1115 that does not meet the limits and requirements of Rule 1115. This requirement applies to all written or oral contracts. [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

34. Owner/Operator subject to Part II, Section A, conditions A.26 through A.39 shall comply with the following requirements:
- (a) Owner/Operator shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
    - 1. coating, catalyst, and reducer used.
    - 2. mix ratio of components used.
    - 3. VOC content of coating as applied.
    - 4. quantity of Group II exempt compounds used.
  - (b) Owner/Operator shall maintain records on a daily basis including:
    - 1. coating and mix ratio of components used in the coating; and
    - 2. quantity of each coating applied.
  - (c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.
  - (d) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V / Federal Operating Permit.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
35. Owner/Operator shall obtain, and maintain records from the coating/ paint manufacturer regarding the VOC content of the coating/paint and any solvents contained therein. [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] (for *Periodic Monitoring Requirements*, see Part II and Part III conditions)
36. The Owner/Operator of any facility electing to engage in the mixing of coatings/ paints or solvents shall be required to obtain and maintain an analysis of the mixture from an independent testing laboratory. [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] (for *Periodic Monitoring Requirements*, see Part II and Part III conditions)

37. A violation of the limits contained in Part II, Conditions A.26 through A.39 as determined by any one of Part II, Conditions 38 and 39 *Reference Method Tests* shall constitute a violation of applicable Part II conditions.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
38. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.26 through A.39, as required by Rule 1114:
- (a) Samples of coatings and solvent as specified in Part II, Conditions A.26 through A.39 shall be analyzed as prescribed by EPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or ARB Method 432 for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility Owner/Operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
  - (b) Emissions of volatile organic compounds as specified in Part II, Conditions A.26 through A.39 shall be measured as prescribed by EPA Reference Method 25 for determination of VOC emissions (without correction for exempt compounds) and EPA Method 18, or ARB Method 422 for measuring emission of exempt compounds.
  - (c) Transfer efficiency as required by Part II, Conditions A.26 through A.39 shall be determined by *South Coast Air Quality Management District Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989*.
  - (d) Overall abatement efficiency is the product of capture efficiency as determined by procedures described in 55 FR 26865, 29 June, 1990, and abatement device efficiency.
- [Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see Part II and Part III conditions)
39. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.26 through A.39, as required by Rule 1115:
- (a) The VOC content of coatings and solvents, as specified in subsections (C)(2) and (C)(4)(c)(i), shall be analyzed as prescribed by USEPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or CARB Method 432, for determination of emissions of exempt compounds.



Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.

- (b) Determination of the initial boiling point of liquid containing VOC, subject to subsection (C)(4)(c)(ii), shall be conducted in accordance with ASTM D1078-86.
- (c) Calculation of total VOC vapor pressure for materials subject to subsection (C)(4)(c)(iii) shall be conducted in accordance with ASTM D2879-86. The fraction of water and exempt compounds in the liquid phase shall be determined by using ASTM D3792-91 and D4457-85 and shall be used to calculate the partial pressure of water and exempt compounds. The results of vapor pressure measurements obtained using ASTM D2879-86 shall be corrected for partial pressure of water and exempt compounds.
- (d) Measurement of solvent losses from alternative application cleaning equipment subject to (C)(4)(b)(iii) shall be conducted in accordance with the South Coast Air Quality Management District's "General Test Method for Determining Solvent Losses from Spray Gun Cleaning Systems" (11/1/94).
- (e) Measurement of acid content of a substance shall be determined by ASTM D1613-85.
- (f) Measurement of metal content of coatings shall be determined in accordance with South Coast Air Quality Management District's "Laboratory Methods of Analysis for Enforcement Samples" manual, "Determination of Percent Metal in Metallic Coatings by Spectrographic Method, Method 311".
- (g) Capture Efficiency shall be determined according to USEPA's technical document, "Guidelines for Determining Capture Efficiency" (1/9/95).
- (h) The control efficiency of the Control Device shall be determined according to USEPA Test Methods 25, 25A or 25B for measuring the total gaseous organic concentrations at the inlet and outlet of the emissions Control Device, as contained in 40 CFR Part 60, Appendix A. USEPA Test Method 18 or CARB Method 422 shall be used to determine emissions of exempt compounds.
- (i) Measurement of solids content by weight of a substance shall be conducted in accordance with ASTM D1475-60.
- (j) Alternative test methods may be used upon obtaining the approval of the APCO, CARB and USEPA.
- (k) Demonstration of Transfer Efficiency of alternative application methods subject to subsection (C)(1)(a)(v) shall be conducted in accordance with South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" (5/24/89).

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current,

40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part II and Part III conditions*)

40. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*). [Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

B. FACILITYWIDE MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS:

1. Any data and records required to be generated and/or kept by any portion of this permit shall be kept current and on site for a minimum of five (5) years from the date generated pursuant to Title V Program requirements and shall be provided to District, state, or federal personnel on request.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
2. Any reports generated from monitoring required by any portion of this permit shall be submitted by the facility Owner/Operator to the MDAQMD at least every six (6) months unless another time period is specified in the specific provision requiring monitoring.  
[40 CFR 70.6(a)(3)(iii)(A); Rule 1203(D)(1)(e)(i)]
3. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's Compliance Test Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]( *for Periodic Monitoring Requirements; see Part II and Part III conditions*)  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
  - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill

records.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](for Periodic Monitoring Requirements; see Part II and Part III conditions)*

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq., and the Federal Clean Air Act, §110(a)(2)(F)(ii), codified in 40 CFR 60 Subpart Q]

C. FACILITYWIDE COMPLIANCE CONDITIONS:

1. The Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.  
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]
2. The Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.  
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]
3. The Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.  
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]
4. The Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.  
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]
5. If the Owner/Operator is operating pursuant to a Schedule of Compliance contained herein then the Owner/Operator shall submit a Progress Report regarding that Schedule of Compliance on a semiannual [6 month] basis unless a shorter time is set forth in the Schedule of Compliance itself.  
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vi)]
6. The Owner/Operator shall submit Compliance Certifications on an annual basis as prescribed by Rule 1203(F)(1). *Compliance Certifications* shall be submitted to the Mojave Desert Air Quality Management District and to the Administrator - USEPA Region 9 within thirty (30) days of the anniversary of the date of the issuance or renewal of the Federal Operating Permit, pursuant to District Rule 1203. This report shall identify

each Applicable Requirement / federally-enforceable requirement in this permit, the compliance status of each subject process unit, whether the compliance was continuous or intermittent since the last certification, and the method(s) used to determine or monitor compliance. A responsible official shall certify each report to be true, accurate, and complete.

[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(vii - x)]

[Rule 1203 (F)(1)]

[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1)]

[40 CFR 70.6(5)(iii); Rule 1203(D)(g)(ix)]

7. The Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.  
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]
8. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.  
[Rule 1203 (D)(1)(f)(ii)]
9. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.  
[Rule 1201 (I)(2)]  
[Rule 1203 (F)(1)]
10. If any of Kramer Junction Company equipment is determined to not be in compliance with any federally-enforceable requirement during the 5 year permit term, the Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, the Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
  - (a) A narrative description of how the facility will achieve compliance with such requirements; and

(b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

(c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance.

[Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

[**SIP Pending:** Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

11. Owner/Operator shall comply with any additional certification requirements as specified in 42 U.S.C §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.  
[Rule 1203 (D)(1)(g)(x)]
12. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.  
[40 CFR 61, subparts A and M]
13. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.  
[40 CFR 61.145.b]
14. Owner/Operator shall notify the APCO/District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].  
[40 CFR 61.145.b]

15. Owner/Operator shall submit, on a semi-annual basis, a *Monitoring Report* to the APCO/District, with a copy to the EPA Region IX Administrator. Each *Monitoring Report* shall be submitted no later than January 31 and July 31 of any given year, shall be certified to be true, accurate, and complete by a responsible official, and shall include the following information and/or data:
  - (a) Summary of deviations from any federally-enforceable requirement in this permit.
  - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
  - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
  - (d) Summary of necessary requirements concerning use and maintenance of equipment including the installation and maintenance of monitoring equipment.[Rule 1203 (D)(1)(e)(i); and 1203 (D)(1)(c)(i - iii)]
16. Owner/Operator shall promptly report all deviations from federal operating permit requirements including those attributable to breakdown conditions. Prompt reporting shall be determined for compliance with District Rule 430.  
[Rule 1203 (D)(1)(e)(ii)]  
[**SIP Pending: Rule 430** - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]
17. On an **annual** basis, of any given year, Owner/Operator shall submit a *Compliance Certification Report*, within 30 days of the anniversary of the date of the issuance or renewal of the Federal Operating Permit, to the APCO/District pursuant to District Rule 1203. This report shall identify each Applicable Requirement / federally-enforceable requirement in this permit, the compliance status of each subject process unit, whether the compliance was continuous or intermittent since the last certification, and the method(s) used to determine or monitor compliance. Each report shall be certified to be true, accurate, and complete by a responsible official and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.  
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(vii - x)]

**PART III**  
**EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS**  
**LIMITATIONS; MONITORING, RECORDKEEPING,**  
**REPORTING AND TESTING REQUIREMENTS; COMPLIANCE**  
**CONDITIONS; COMPLIANCE PLANS**

**A. Standard Monitoring, Record-keeping and Reporting Requirements:**

1. Any data and records required to be generated and/or kept by any portion of this permit, shall be kept current, on-site for a minimum of five (5) years from the date generated pursuant to Title V Program requirements and provided to District, state, or federal personnel on request.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].
2. Any reports generated from monitoring required by any portion of this permit shall be submitted by the facility Owner/Operator to the MDAQMD at least every three (3) months unless another time period is specified in the specific provision requiring monitoring.  
[40 CFR 70.6(a)(3)(iii)(A); Rule 1203(D)(1)(e)(i)]
3. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's Compliance Test Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's Compliance Test Procedural Manual. All emission determinations shall be made as stipulated in the Written Test Protocol accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved Written Test Protocol may be used with District concurrence.  
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see Part II and Part III conditions)  
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
  - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.

- (b) Fuel suppliers fuel analysis certification/guarantee including fuel sulfur content shall be kept on site, for a minimum of five (5) years, and available for inspection by District, state or federal personnel on request. The sulfur content of diesel fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

B. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Numbers B001793, B001802, B001805, B001882 and B001885 (SEGS units III-VII) Steam Boilers:

1. A Continuous Emissions Monitoring System (CEMS) shall be operating at all times in accordance with the District Approved Monitoring Plan.  
*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]
2. The Owner/Operator shall maintain a file of the CEMS data, all fuel use records and all records and emissions tests performed on any emissions unit (SEGS III through VII) at the site. All information shall be recorded in a permanent form suitable for inspection. The file shall be retained at least five years following the date of such measurement, calculations, reports and records. The District shall be granted access to these records upon request.



[40CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii) . [Rule 204 - Permit Conditions; Version in SIP = CARB Executive Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77].

3. Compliance Emissions Tests shall be performed in accordance with the District Compliance Test Procedural Manual. The test report shall be submitted to the District within 45 days following completion of testing, but not later than six weeks prior to the expiration of the permit. The following tests are required:
- Annual compliance for NO<sub>x</sub> and CO;
  - Particulate Matter every 5 years, commencing 1995. However Particulate Matter tests may be required at the discretion of the District. The owner/operator shall have such test performed and the emissions limits given in # 4, below, shall not be exceeded.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

4. The total emissions of NO<sub>x</sub> for SEGS III through VII shall be limited to 515.1 lb/day (94 ton/year), calculated based on a rolling annual average (day is defined as any 24 hour period beginning at midnight). Emitting equipment subject to this limitation shall include the following:
- Boilers for SEGS III through VII;
  - HTF heaters for SEGS III through VII;
  - Diesel Generators for SEGS III through VII; and
  - Diesel Fire Pumps for SEGS III through VII.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

5. Daily logs shall be maintained, which includes, but is not limited to the following:

- a. hours of operation per day;
- b. dates of routine maintenance;
- c. dates of major repairs and/or replacements;
- d. fuel (natural gas ) use; and
- e. amount of HTF added to the systems.

This logged information shall be maintained on-site for a minimum of 5 years and provided to District, state or federal personnel on request.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

6. Approximately 64,000 sq ft of the truck parking/fueling area on the west side of the Pilot Travel Center, paved with asphalt material for particulate matter offset requirements, shall be maintained to ensure dust abatement integrity by the o/o for the duration of operation of SEGS (III-VII). The area is located in Kramer Junction, south of the State Highway 58 and west of State Highway 395. Note:

When the permit was initially issued, this parking lot was known as "Big Daddy's Restaurant". New owners renovated and changed the business plan, but maintained more than the 64,000 sq ft necessitated for particulate off-sets.

7. The following conditions are specific to MDAQMD permit B001793, which is SEG III boiler:

- a. The maximum hourly and daily emissions rates (lb/h and lb/day respectively) for the following criteria pollutants are as follow:

- i. 35.0 lb/h of NOX, but not to exceed 536.0 lb in any one day;
- ii. 33.9 lb/h of CO, but not to exceed 542.4 lb in any one day;
- iii. 4.0 lb/h of particulate, but not to exceed 64.0 lb in any one day;
- iv. The hourly emissions for NOx shall be reported per the approved CEMS monitoring plan. The maximum emissions for the hour shall be the highest of the four fifteen minute period averages during that hour;
- v. Daily emissions shall be reported based on the hourly emissions reported above.

- b. The NO<sub>x</sub> concentration shall not exceed 80 ppm, v/v (dry and at 3% oxygen) when the load level of the boiler is equal to or greater than 20% of design capacity.
8. The following conditions are specific to MDAQMD permit B001802, which is SEG IV boiler:
- a. The maximum hourly and daily emissions rates (lb/h and lb/day respectively) for the following criteria pollutants are as follow:
    - i. 35.0 lb/h of NO<sub>x</sub>, but not to exceed 536.0 lb in any one day;
    - ii. 33.9 lb/h of CO, but not to exceed 542.4 lb in any one day;
    - iii. 4.0 lb/h of particulate, but not to exceed 64.0 lb in any one day;
    - iv. The hourly emissions for NO<sub>x</sub> shall be reported per the approved CEMS monitoring plan. The maximum emissions for the hour shall be the highest of the four fifteen minute period averages during that hour;
    - v. Daily emissions shall be reported based on the hourly emissions reported above.
  - b. The NO<sub>x</sub> concentration shall not exceed 80 ppm, v/v (dry and at 3% oxygen) when the load level of the boiler is equal to or greater than 20% of design capacity.
9. The following conditions are specific to MDAQMD permit B001805, which is SEG V boiler:
- a. The maximum hourly and daily emissions rates (lb/h and lb/day respectively) for the following criteria pollutants are as follow:
    - i. 35.0 lb/h of NO<sub>x</sub>, but not to exceed 536.0 lb in any one day;
    - ii. 33.9 lb/h of CO, but not to exceed 542.4 lb in any one day;
    - iii. 4.0 lb/h of particulate, but not to exceed 64.0 lb in any one day;
    - iv. The hourly emissions for NO<sub>x</sub> shall be reported per the approved CEMS monitoring plan. The maximum emissions for the hour shall be the highest of the four fifteen minute period averages during that hour;
    - v. Daily emissions shall be reported based on the hourly emissions reported above.
  - b. The NO<sub>x</sub> concentration shall not exceed 80 ppm, v/v (dry and at 3% oxygen) when the load level of the boiler is equal to or greater than 20% of design capacity.
10. The following conditions are specific to MDAQMD permit B001882, which is SEG VI boiler:
- a. The maximum hourly and daily emissions rates (lb/h and lb/day respectively) for the following criteria pollutants are as follow:
    - i. 21.6 lb/h of NO<sub>x</sub>, but not to exceed 310.4 lb in any one day;
    - ii. 26.7 lb/h of CO, but not to exceed 427.2 lb in any one day;
    - iii. 4.0 lb/h of particulate, but not to exceed 64.0 lb in any one day;

- iv. The hourly emissions for NO<sub>x</sub> shall be reported per the approved CEMS monitoring plan. The maximum emissions for the hour shall be the highest of the four fifteen minute period averages during that hour;
    - v. Daily emissions shall be reported based on the hourly emissions reported above.
  - b. The NO<sub>x</sub> concentration shall not exceed 45 ppm, v/v (dry and at 3% oxygen) when the load level of the boiler is equal to or greater than 20% of design capacity.
- 11. The following conditions are specific to MDAQMD permit B001885, which is SEG VII boiler:
  - a. The maximum hourly and daily emissions rates (lb/h and lb/day respectively) for the following criteria pollutants are as follow:
    - i. 21.6 lb/h of NO<sub>x</sub>, but not to exceed 310.4 lb in any one day;
    - ii. 26.7 lb/h of CO, but not to exceed 427.2 lb in any one day;
    - iii. 4.0 lb/h of particulate, but not to exceed 64.0 lb in any one day;
    - iv. The hourly emissions for NO<sub>x</sub> shall be reported per the approved CEMS monitoring plan. The maximum emissions for the hour shall be the highest of the four fifteen minute period averages during that hour;
    - v. Daily emissions shall be reported based on the hourly emissions reported above.
  - b. The NO<sub>x</sub> concentration shall not exceed 45 ppm, v/v (dry and at 3% oxygen) when the load level of the boiler is equal to or greater than 20% of design capacity.
- C. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Numbers B001794, B001803, B001806, B001883 and B001886 (SEGS units III-VII) HTF Gas Fired Heaters:
  - 1. A daily log shall be maintained which includes but is not limited to the following:
    - a. Hours of operation/day
    - b. Dates of routine maintenance
    - c. Dates of major repairs and/or replacements
    - d. Natural gas use.

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 407 - Liquid and Gaseous Air Contaminants; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version =

07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

2. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. Any District required testing performed by the owner/operator shall have the following emission limits; 2.7 lb/hr of NO<sub>x</sub> and 2.2 lb/hr of CO emission limits shall not be exceeded. [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]
3. The daily emissions limits for SEGS III through VII includes the emissions from this equipment, reference permits B001793, B001802, B001805, B001882 and B001885. [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]
- D. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Numbers B003031, B003031, B003032, B003023 and B003033 (SEGS units III-VII) Cooling Towers:
  1. The Owner/Operator shall comply with District Rule 1503 relative to the "Hexavalent Chromium Emissions From Cooling Towers."  
District Rule 1503, adopted 09/23/91. Note this rule is not in the **SIP**.
  2. The drift rate shall not exceed 0.002 percent with a maximum circulation rate of 30,000

for permits B003030, B003031, B003032 and 22,000 gallon/min for permits B003023 and B003033 gallon/min. The maximum emission rate of PM10 shall not exceed 1.35 lb/hr (based on a TDS of 4,500 ppm, w/w with a maximum flow rate and drift rate) for permits B003030, B003031, B003032 and 1.0 lb/hr for permits B003023 and B003033.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. Weekly tests of the blow-down water quality shall be performed by the Owner/Operator in accordance with the standard test procedures. These weekly recordings, including mass emission rate, are to be placed into a log and be maintained on site, for a minimum of five (5) years, and be provided to District, state or federal personnel on request.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

4. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

5. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on site, for a minimum of five (5) years, and be available to District, state or federal personnel on request.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

E. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Numbers E003229, E003230, E003231, and E003232 (SEGS units III-VI) Diesel Engine Driven Fire Pumps:

1. The sulfur content of the diesel fuel shall not exceed 0.05% by weight.

2. A maintenance procedure shall be established that states how often and for what duration this piece of equipment is to run for preventative maintenance purposes. This procedure is to be kept on site, for a minimum of five (5) years, and be available to District, state or federal personnel on request.
3. An operating log shall be maintained which gives the hours of operation and reason for operating. This log shall be kept on a calendar year basis, kept on site, for a minimum of five (5) years, and be made available to the District, state or federal personnel on request.
4. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. The owner/operator shall have such tests performed and the emission limits of 2.9 lb/hr of NO<sub>x</sub>, 0.5 lb/hr of CO and 0.1 lb/hr of Particulate shall not be exceeded.
5. The daily emissions limits for SEGS III through VII includes the emissions from this equipment, reference permits B001793, B001802, B001805, B001882 and B001885.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

F. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Numbers E001795, E001804, E001807, E001884 and E001887 (SEGS units III-VI) Diesel Engine Driven Electrical Generators:

1. The sulfur content of the diesel fuel shall not exceed 0.05% by weight.
2. This equipment shall be exclusively used as an emergency unit during loss of commercial power. A maintenance procedure shall be established that states how often and for what duration this piece of equipment is to run for preventive maintenance purposes. This procedure is to be kept on site, for a minimum of five (5) years, and be available to District, state or federal personnel on request.
3. An operating log shall be maintained which gives the hours of operation and reason for operating. This log shall be kept on a calendar year basis, kept on site, for a minimum of five (5) years, and be made available to the District, state or federal personnel on request.

4. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. The owner/operator shall have such tests performed and the emission limits of 15.9 lb/hr of NO<sub>x</sub>, 2.8 lb/hr of CO and 0.5 lb/hr of Particulate shall not be exceeded.
5. The daily emissions limits for SEGS III through VII includes the emissions from this equipment, reference permits B001793, B001802, B001805, B001882 and B001885.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)

*[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]*

G. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Number B004940 (SEGS units III-VI) Diesel Engine Driven Compressor :

1. This equipment shall not operate more than 400 hours in any calendar year without the prior written approval of the APCO.
2. This equipment shall use no other fuel than diesel without the prior written approval of the APCO.
3. The sulfur content of the fuel used in this equipment shall not exceed 0.05% on a mass basis. The owner/operator (Owner/Operator) shall log the volume or mass and the dates of all purchases of fuel and the sulfur content. The Owner/Operator may use the supplier's sulfur analytical data, but at the discretion of the District, shall take a sample of the fuel and submit it for analysis by ASTM method D-2622 or D-4294 as they may be amended from time to time. An independent laboratory shall conduct the analyses. The results of said analyses shall be logged and forwarded to the District on receipt.
4. The Owner/Operator shall log the hours of operation of this unit to the nearest one-quarter hour. This log shall be maintained current, on-site, for a minimum of five (5) years and provided to District, state or federal personnel on request.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)

*[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]*



H. Equipment Specific Monitoring, Record-keeping, Reporting and Testing Requirements Applicable to MDAQMD Permit Number B005101 (SEGS units III-VI) Diesel Engine Driven Mirror Washer:

1. This equipment shall not be operated more than 2,000 hours per year based on a twelve (12) month rolling average.
2. This equipment shall use no other fuel than diesel without the prior written approval of the APCO.
3. The sulfur content of the fuel used in this equipment shall not exceed 0.05% on a mass basis. The owner/operator (Owner/Operator) shall log the volume or mass and the dates of all purchases of fuel and the sulfur content. The Owner/Operator may use the supplier's sulfur analytical data, but at the discretion of the District, shall take a sample of the fuel and submit it for analysis by ASTM method D-2622 or D-4294 as they may be amended from time to time. An independent laboratory shall conduct the analyses. The results of said analyses shall be logged and forwarded to the District, state or federal on request.
4. The Owner/Operator shall log the hours of operation of this unit to the nearest one-quarter hour. This log shall be maintained current, on-site, for a minimum of five (5) years and provided to District, state or federal personnel on request.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see Part II and Part III conditions)*

*[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]*

I. EQUIPMENT SPECIFIC MONITORING, RECORD-KEEPING, REPORTING AND TESTING REQUIREMENTS APPLICABLE TO MDAQMD PERMIT NUMBER N005073, GASOLINE DISPENSING FACILITY (NON-RETAIL):

1. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. In addition, Owner/Operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. Such logs or records shall be maintained at the facility for a minimum of 5 years from the date the records were created

and shall be made available to District, state or federal personnel on request.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. Owner/Operator shall maintain a daily log of product throughput for gasoline dispensing facility.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. Any violation determined by any one of the following listed *Reference Method Tests* shall constitute a violation of applicable Part II and Part III conditions:

- (a) Vapor recovery system and gasoline dispensing equipment shall be maintained leak-free as verified performing annual EPA Method 21 tests and monthly visual inspections. Vapor Tightness (Fugitive Vapor Leaks) for all equipment described in Part I, Condition (C)(5) shall be determined by EPA Method 21 - *Determination of Volatile Organic Compounds Leaks*.

- (b) Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled, *Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems* (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, *Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks*.

- (c) Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82.

- (d) Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB Method 202, "*Certification of Vapor Recovery Systems - Bulk Plants*".

- (e) Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "*Certification of Vapor Recovery Systems - Gasoline Terminals*".

- (f) Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "*Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations*".

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

4. Compliance with the requirement of the Phase II system to be 95 % effective for the recovery of displaced vapors is considered to be demonstrated by performing annual EPA Method 21 tests and monthly visual inspections, including maintaining equipment as specified in the applicable ARB Executive Order certifying the system and conditions listed in Part III, Conditions (I)(1) through (I)(4). A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm as determined using EPA Method 21.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]* (for Periodic Monitoring Requirements, see Part II and Part III conditions)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

## PART IV STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction, the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.  
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]
2. The Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).  
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.  
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.  
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]
7. The Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.  
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. The Owner/Operator shall furnish to District, state or federal personnel on request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]
9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
10. The Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.  
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
11. The Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.  
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s).  
[40 CFR 70.6(f)(1); Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.  
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations which occurred prior to the issuance of this Federal Operating Permit.  
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.  
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]
16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.  
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]

17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading, pursuant to provisions contained in an applicable State Implementation Plan.  
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]
18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.  
[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.  
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]
20. If the Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, the Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.  
[40 CFR Part 82, Subpart F]
21. If the Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.  
[40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.  
[Section 113(a) of the Clean Air Act]

## PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

No additional Operational Flexibility provisions allowed without appropriate permit modifications.

## PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR72, Permits Regulation (Acid Rain Program)  
40CFR73, Sulfur Dioxide Allowance System  
40CFR75, Continuous Emission Monitoring  
40CFR75, Subpart D, Missing Data Substitution Procedures  
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures  
40CFR75, Appendix C, Missing Data Estimating Procedures  
40CFR75, Appendix D, Optional SO<sub>2</sub> Emissions Data Protocol  
40CFR75, Appendix F, Conversion Procedures  
40CFR75, Appendix G, Determination of CO<sub>2</sub> Emissions

B. Other conventions:

1. Unless otherwise noted, a “day” shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
hp	horse power
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
PM <sub>10</sub>	particulate matter less than 10 microns aerodynamic diameter
psia	pounds per square inch absolute
rpm	revolutions per minute
SIC	Standard Industrial Classification



SIP                    State of California Implementation Plan  
SO<sub>2</sub>                   sulfur dioxide

D. DEFINITIONS:

1. For the purposes of MDAQMD Rule 203 - *Permit to Operate*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 203 shall apply.
2. For the purposes of MDAQMD Rule 204 - *Permit Conditions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 204 shall apply.
3. For the purposes of MDAQMD Rule 206 - *Posting of Permit to Operate*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 206 shall apply.
4. For the purposes of MDAQMD Rule 207 - *Altering or Falsifying of Permit*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 207 shall apply.
5. For the purposes of MDAQMD Rule 209 - *Transfer and Voiding of Permits*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 209 shall apply.
6. For the purposes of MDAQMD Rule 219 - *Equipment Not Requirement a Permit*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 219 shall apply.
7. For the purposes of MDAQMD Rule 221 - *Federal Operating Permit Requirement*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 221 shall apply.
8. For the purposes of MDAQMD Rule 301 - *Permit Fees*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 301 shall apply.
9. For the purposes of MDAQMD Rule 312 - *Fees for Federal Operating Permits*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 312 shall apply.

10. For the purposes of MDAQMD Rule 401 - *Visible Emissions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 401 shall apply.
11. For the purposes of MDAQMD Rule 402 - *Nuisance*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 402 shall apply.
12. For the purposes of MDAQMD Rule 403 - *Fugitive Dust*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 403 shall apply.
13. For the purposes of MDAQMD Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 403.2 shall apply.
14. For the purposes of MDAQMD Rule 404 - *Particulate Matter - Concentration*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 404 shall apply.
15. For the purposes of MDAQMD Rule 405 - *Solid Particulate Matter - Weight*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 405 shall apply.
16. For the purposes of MDAQMD Rule 406 - *Specific Contaminants*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 406 shall apply.
17. For the purposes of MDAQMD Rule 407 - *Liquid and Gaseous Contaminants*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 407 shall apply.
18. For the purposes of MDAQMD Rule 408 - *Circumvention*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 408 shall apply.
19. For the purposes of MDAQMD Rule 409 - *Combustion Contaminants*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 409 shall apply.
20. For the purposes of MDAQMD Rule 430 - *Breakdown Provisions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 430 shall apply.
21. For the purposes of MDAQMD Rule 431 - *Sulfur Content of Fuels*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 431 shall apply.

22. For the purposes of MDAQMD Rule 432 - *Gasoline Specifications*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 432 shall apply.
23. For the purposes of MDAQMD Rule 442 - *Usage of Solvents*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 442 shall apply.
24. For the purposes of MDAQMD Rule 461 - *Gasoline Transfer and Dispensing*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 461 shall apply.
25. For the purposes of MDAQMD Rule 462 - *Organic Liquid Loading*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 462 shall apply.
26. For the purposes of MDAQMD Rule 463 - *Storage of Organic Liquids*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 463 shall apply.
27. For the purposes of MDAQMD Rule 501 - *General*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 501 shall apply.
28. For the purposes of MDAQMD Rule 502 - *Filing Petitions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 502 shall apply.
29. For the purposes of MDAQMD Rule 503 - *Contents of Petitions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 503 shall apply.
30. For the purposes of MDAQMD Rule 504 - *Petitions for Variances*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 504 shall apply.
31. For the purposes of MDAQMD Rule 505 - *Appeal from Denial*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 505 shall apply.
32. For the purposes of MDAQMD Rule 506 - *Failure to Comply with Rule*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 506 shall apply.
33. For the purposes of MDAQMD Rule 507 - *Pleadings*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 507 shall apply.

34. For the purposes of MDAQMD Rule 508 - *Dismissal of Petition*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 508 shall apply.
35. For the purposes of MDAQMD Rule 509 - *Place of Hearing*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 509 shall apply.
36. For the purposes of MDAQMD Rule 510- *Notice of Hearing*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 510 shall apply.
37. For the purposes of MDAQMD Rule 511 - *Evidence*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 511 shall apply.
38. For the purposes of MDAQMD Rule 512 - *Preliminary Matters*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 512 shall apply.
39. For the purposes of MDAQMD Rule 513 - *Official Notice*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 513 shall apply.
40. For the purposes of MDAQMD Rule 514 - *Continuances*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 514 shall apply.
41. For the purposes of MDAQMD Rule 515 - *Decision*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 515 shall apply.
42. For the purposes of MDAQMD Rule 516 - *Effective Date of Decision*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 516 shall apply.
43. For the purposes of MDAQMD Rule 517 - *Lack of Permit*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 517 shall apply.
44. For the purposes of MDAQMD Rule 518 - *Findings*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 518 shall apply.
45. For the purposes of MDAQMD Rule 1104 - *Organic Solvent Degreasing Operations*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1104 shall apply.
46. For the purposes of MDAQMD Rule 1113 - *Architectural Coatings Rule*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1113 shall apply.

47. For the purposes of MDAQMD Rule 1114 - *Wood Products Coatings Rule*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1114 shall apply.
48. For the purposes of MDAQMD Rule 1115 - *Metal Parts & Products Coating Operations*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1115 shall apply.
49. For the purposes of MDAQMD Rule 1157 - *Boilers and Process Heaters*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1157 shall apply.
50. For the purposes of MDAQMD Rule 1200 - *General*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1200 shall apply.
51. For the purposes of MDAQMD Rule 1201 - *Definitions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1201 shall apply.
52. For the purposes of MDAQMD Rule 1202 - *Applications*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1202 shall apply.
53. For the purposes of MDAQMD Rule 1203 - *Federal Operating Permits*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1203 shall apply.
54. For the purposes of MDAQMD Rule 1204 - *Reserved, "General Permits"*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1204 shall apply.
55. For the purposes of MDAQMD Rule 1205 - *Modifications of Federal Operation Permits*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1205 shall apply.
56. For the purposes of MDAQMD Rule 1206 - *Reopening, Reissuance and Termination of Federal Operating Permits*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1206 shall apply.
57. For the purposes of MDAQMD Rule 1207 - *Notice and Comment*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1207 shall apply.

58. For the purposes of MDAQMD Rule 1208 - *Certification*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1208 shall apply.
59. For the purposes of MDAQMD Rule 1209 - *Appeals*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1209 shall apply.
60. For the purposes of MDAQMD Rule 1210 - *Acid Rain Provisions of Federal Operating Permits*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1210 shall apply.